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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Patent Application of:

Jerome MAILLOT, et al.

Serial No: 09/998,919

Group Art Unit: 2673

Confirmation No. 4265

Filed: December 3, 2001

Examiner: Unassigned

For: DYNAMICALLY ADJUSTED BRUSH FOR DIRECT PAINT SYSTEMS ON  
PARAMETERIZED MULTI-DIMENSIONAL SURFACES

**LETTER TO THE EXAMINER SUBMITTING**  
**CORRECTED DRAWINGS**

Assistant Commissioner for Patents  
Washington, D.C. 20231

ATTENTION: OFFICIAL DRAFTSPERSON

Sir:

In accordance with the requirement in Notice to File Missing Parts, mailed December 17, 2002, applicant herewith submits 21 sheets of corrected drawings for filing in the subject application.

It is respectfully requested that the corrected and/or formal drawings filed herewith be entered in the above-referenced application.

Respectfully submitted,

STAAS & HALSEY LLP

Date: 3/17/02

By: [Signature]

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PRIOR ART

102

101

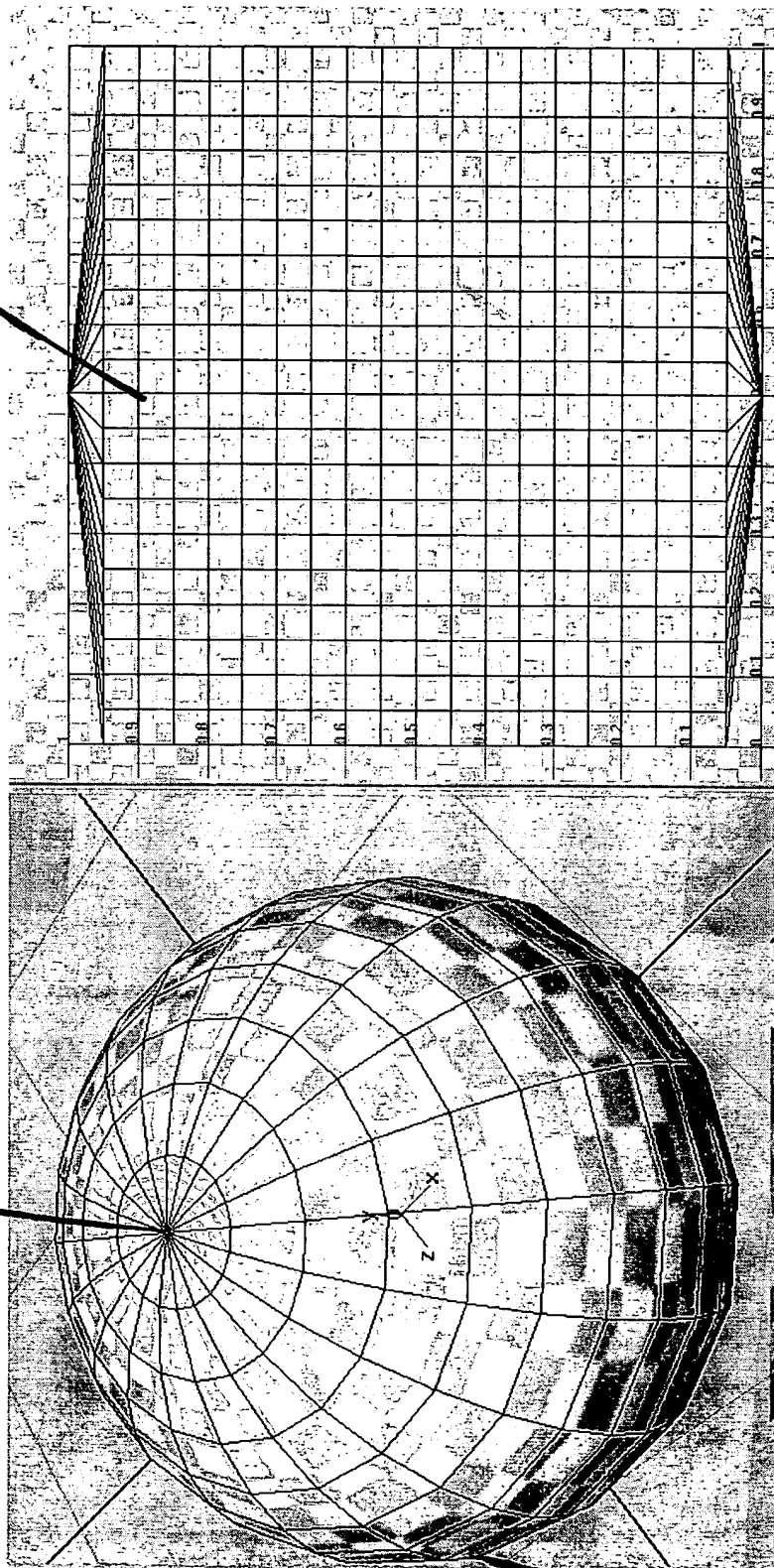


FIG. 1A

FIG. 1B

100

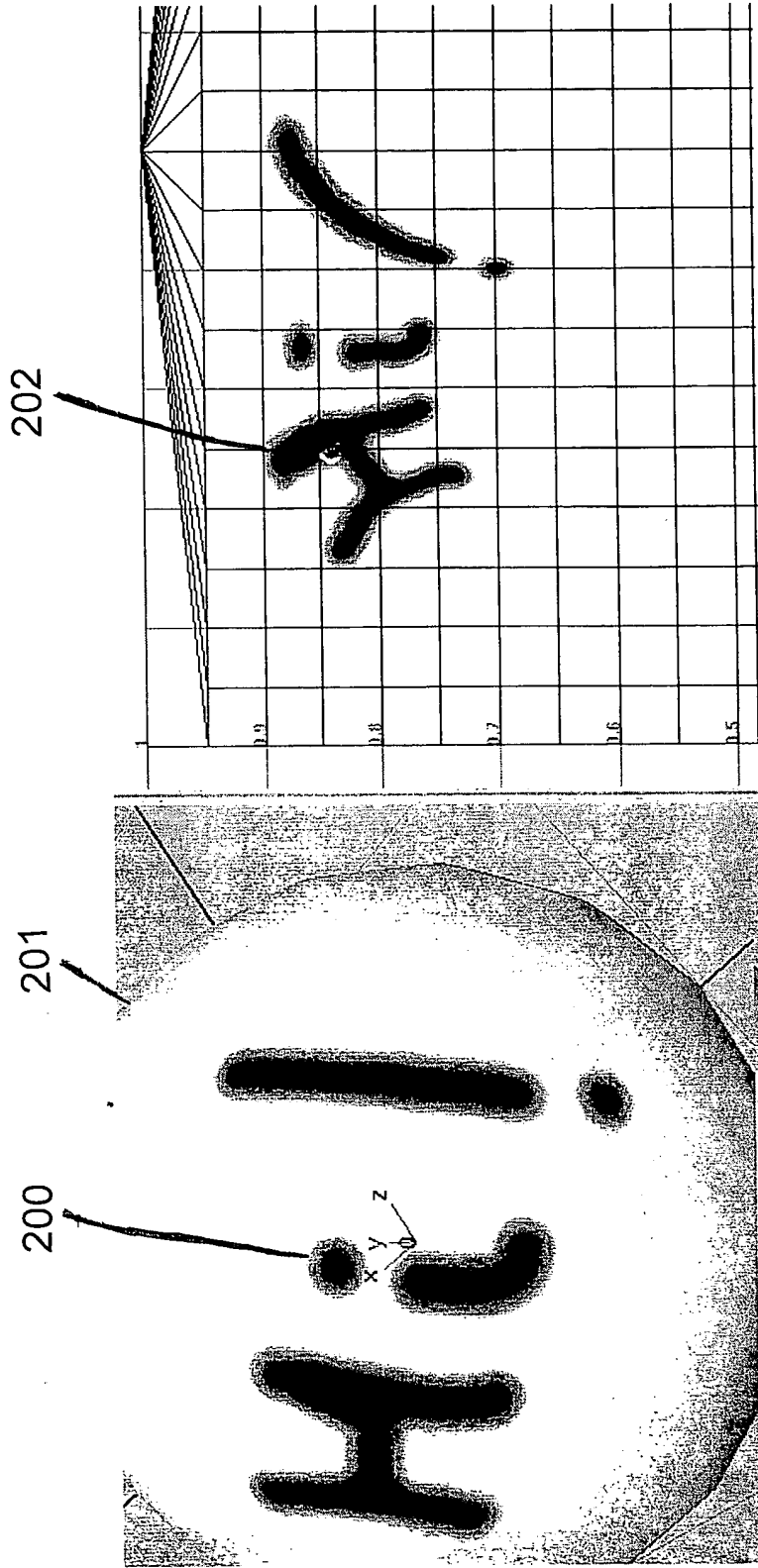


FIG. 2A

FIG. 2B

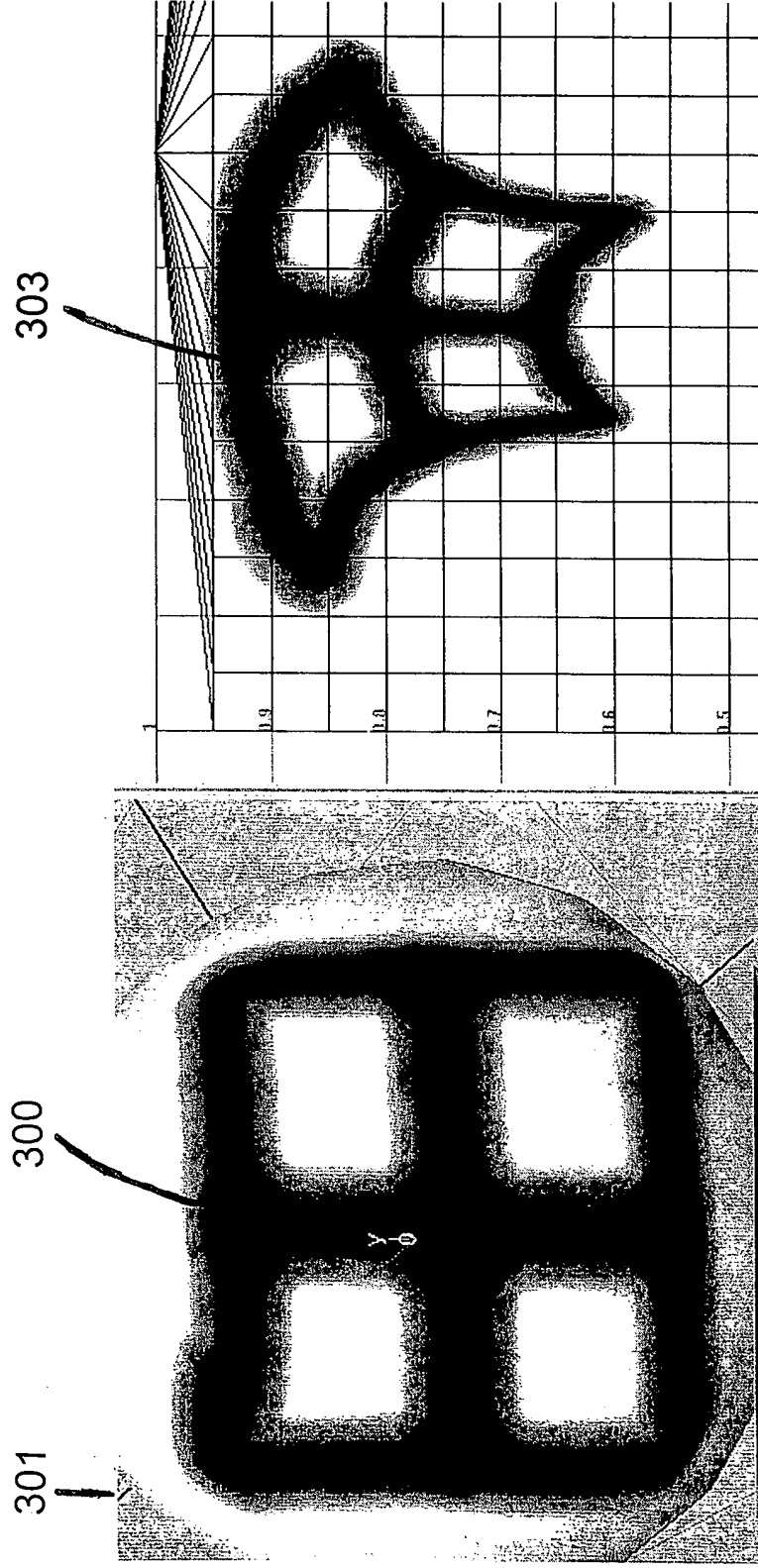
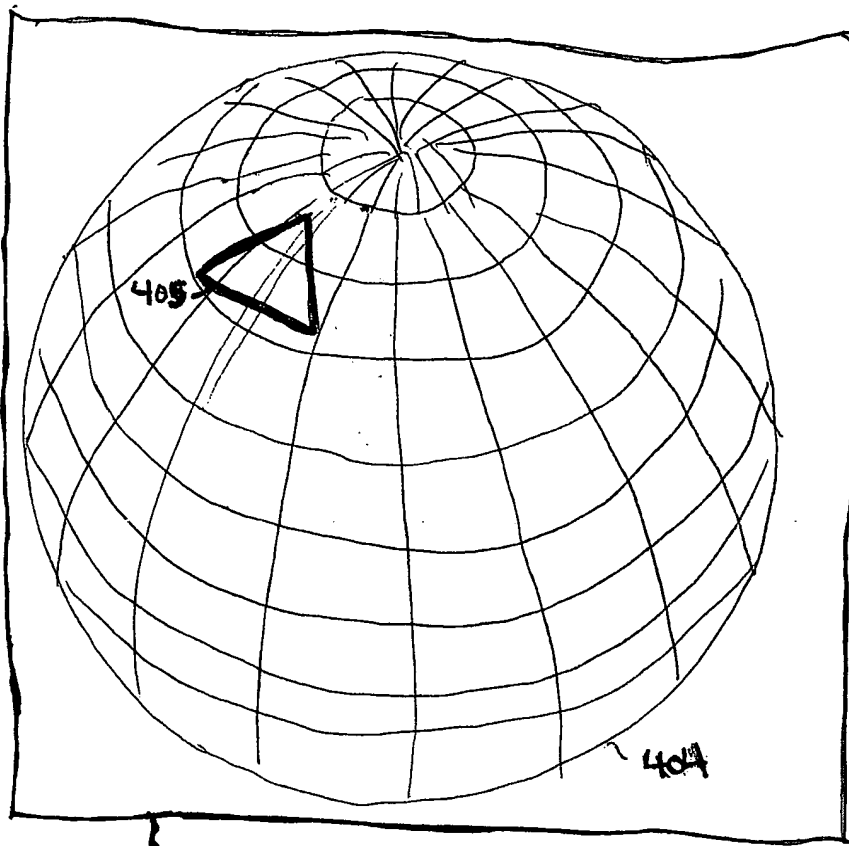


FIG. 3A

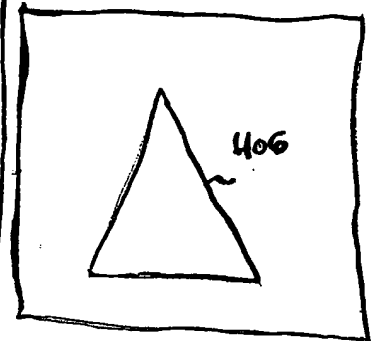
FIG. 3B

FIG. 4



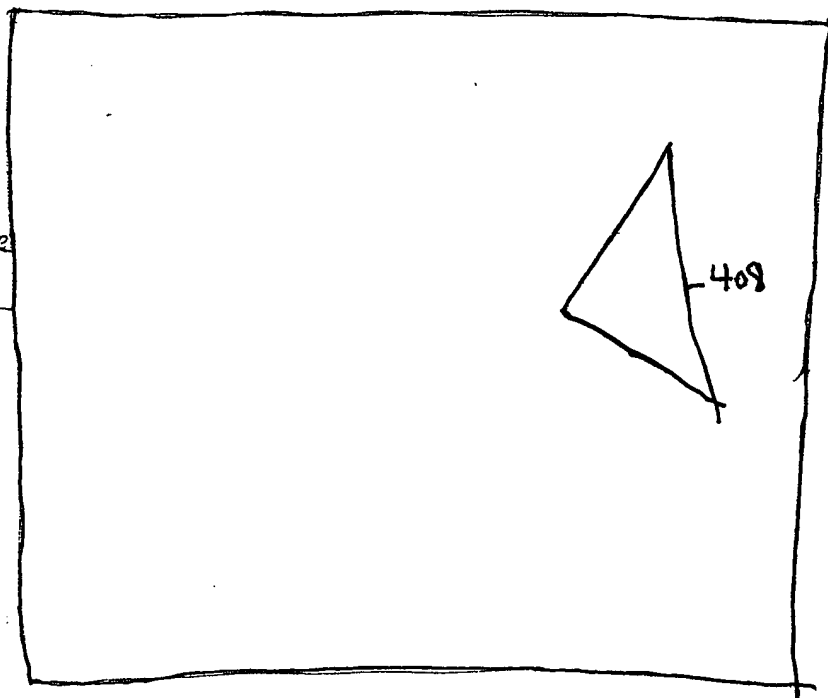
400  
30 Space

Stamp  
intermediate  
Space  
402



texture space

403



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2025-07-07 10:02:00

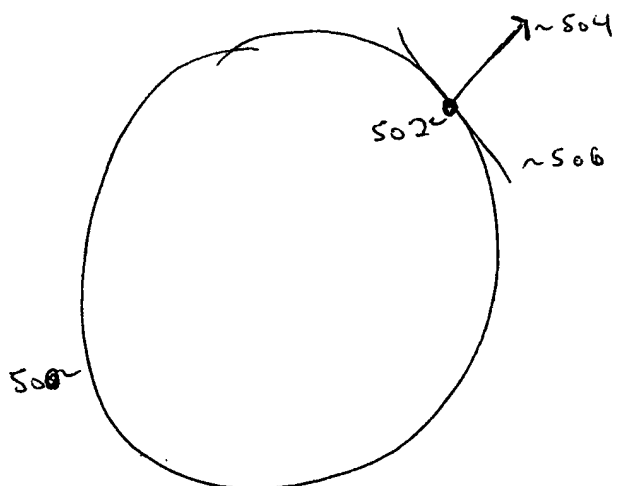


Fig. 5A

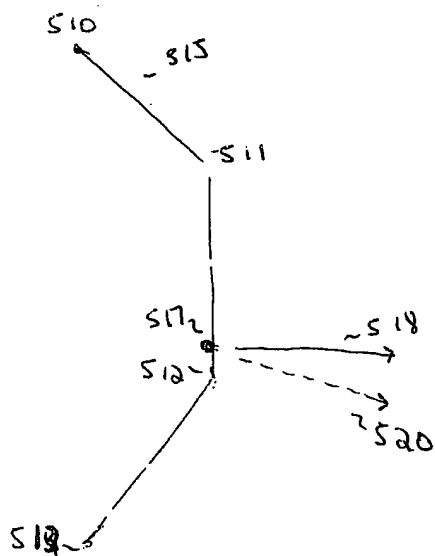


Fig. 5B

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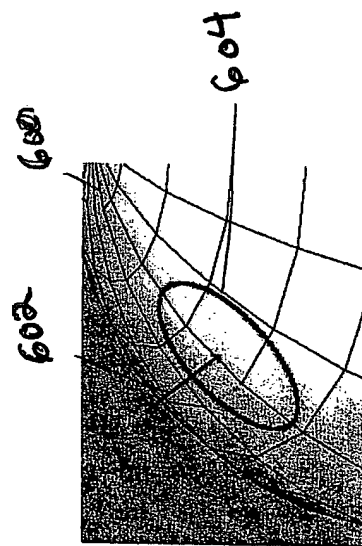


FIG. 6

$\begin{matrix} \text{C} \\ \cdot \\ \gamma_{07} \end{matrix}$   
 $\begin{matrix} \text{X,Y} \\ \cdot \\ \gamma_{00} \end{matrix}$   
 $\begin{matrix} \sim \gamma_{03} \end{matrix}$

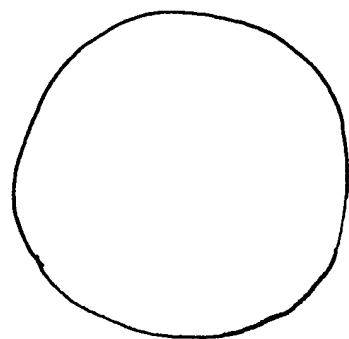


Fig 7A

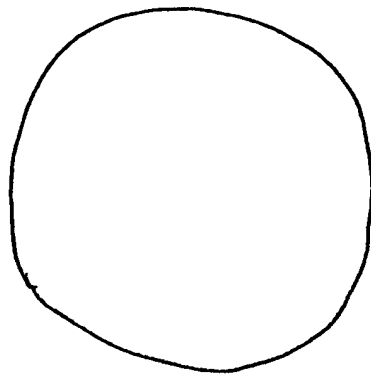


Fig 7B

$\gamma_{02} \cdot \rho(x,y,z)$

$\begin{matrix} \gamma_{04} & \gamma_{02} & \gamma_{05} \\ \cdot & \cdot & \cdot \\ \rho(x,y,z) & \rho(x,y,z) & \rho(x,y,z) \end{matrix}$

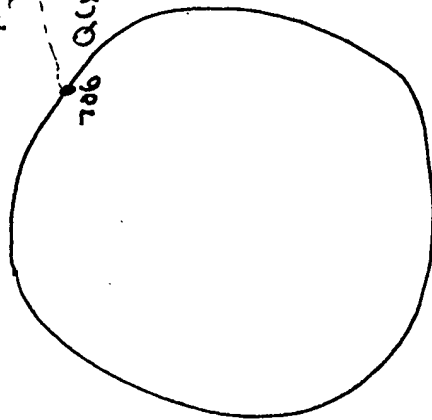


Fig 7C

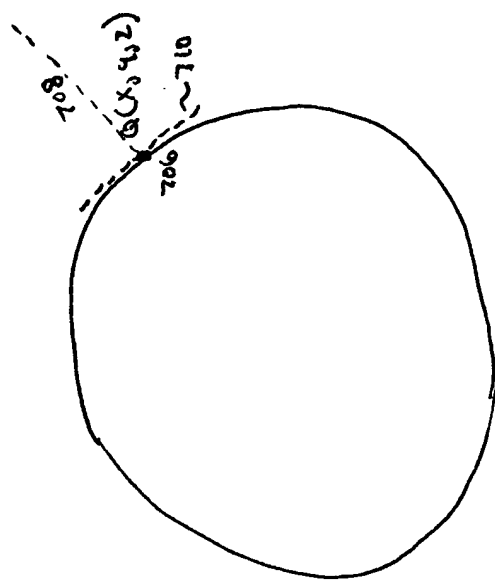


Fig 7D



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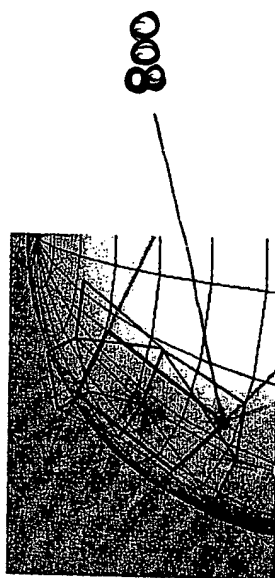


Fig. 8

203T E.O. 12812

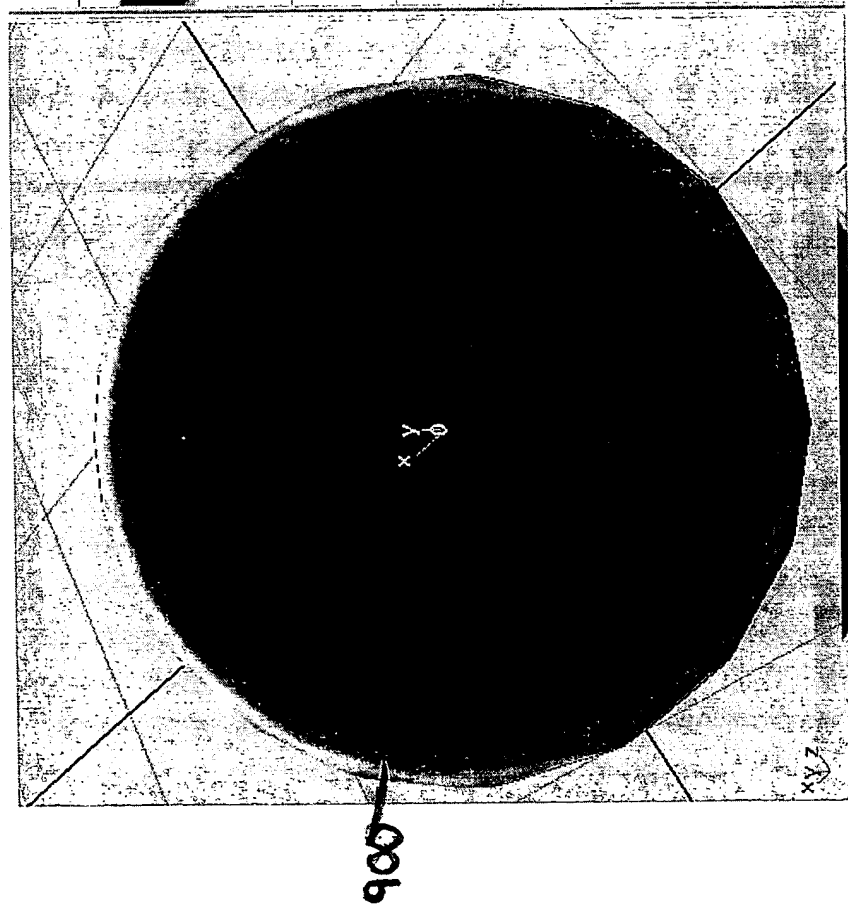


Fig. 9A

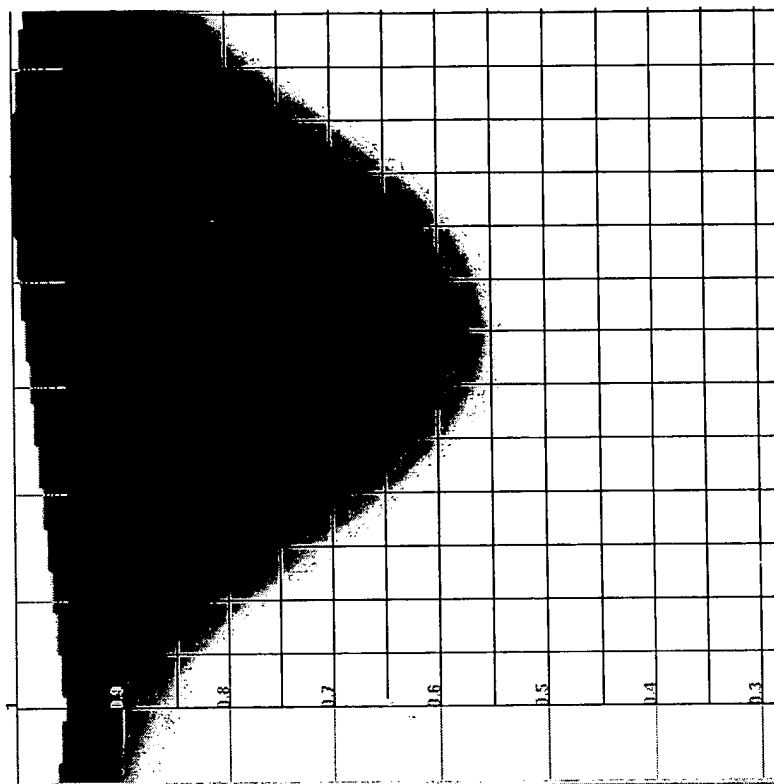


Fig. 9B

208TED" 6T686650

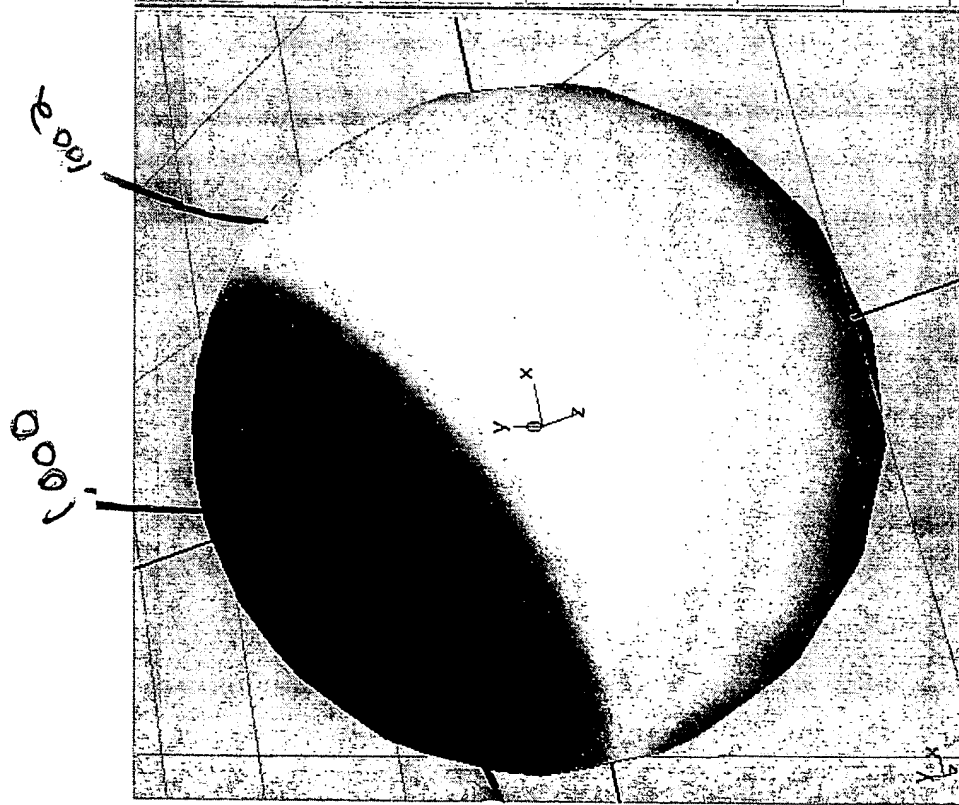


FIG. 10A

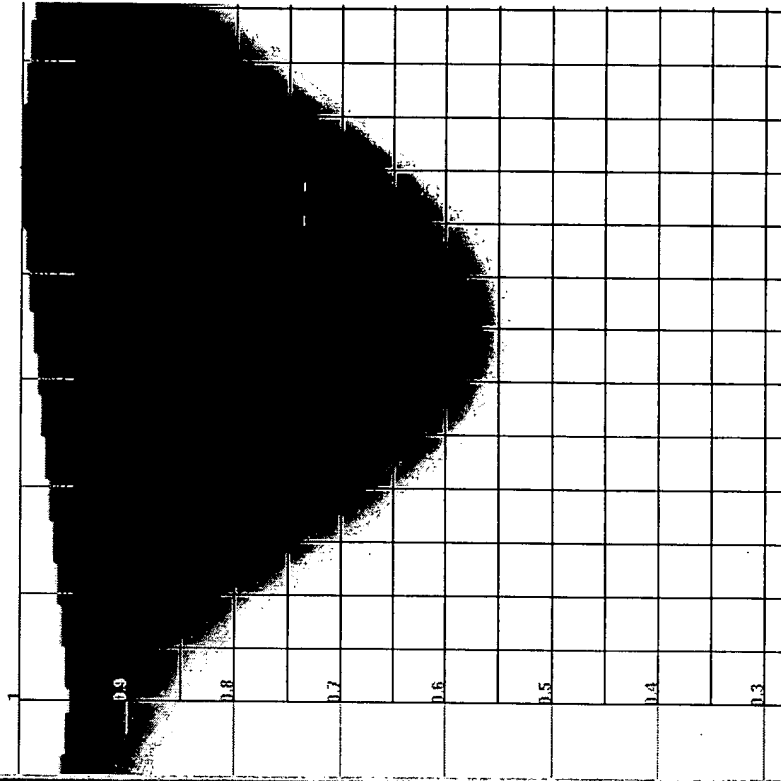


FIG 10B



FIG. 11A

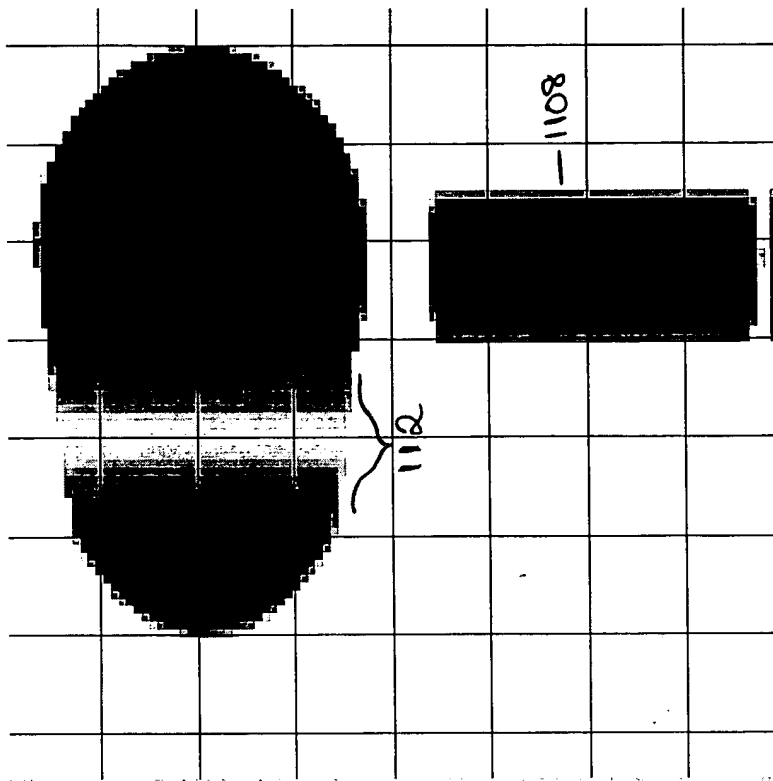


FIG. 11B

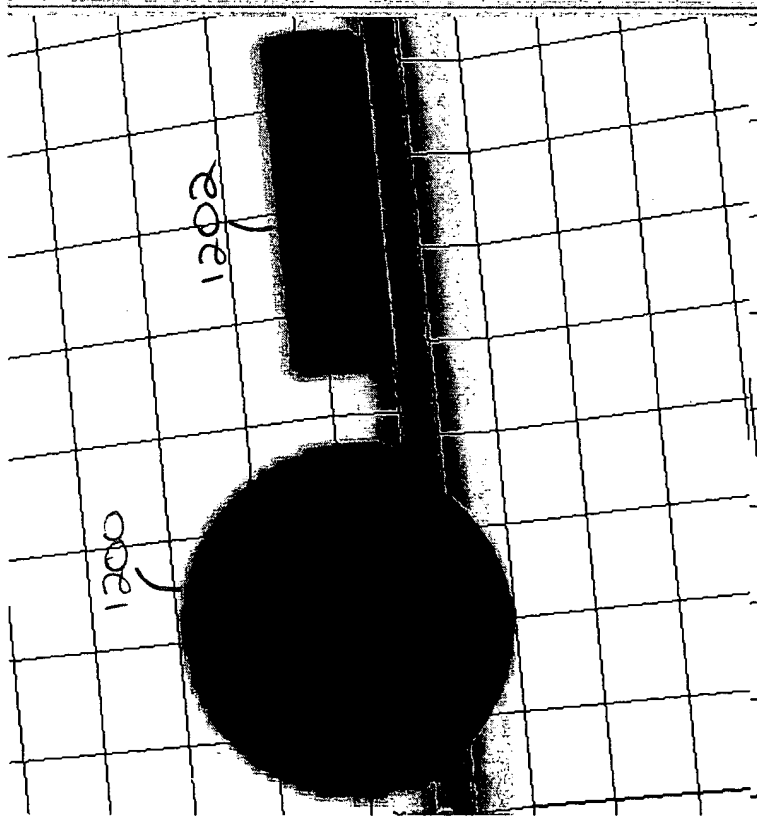


Fig 12A

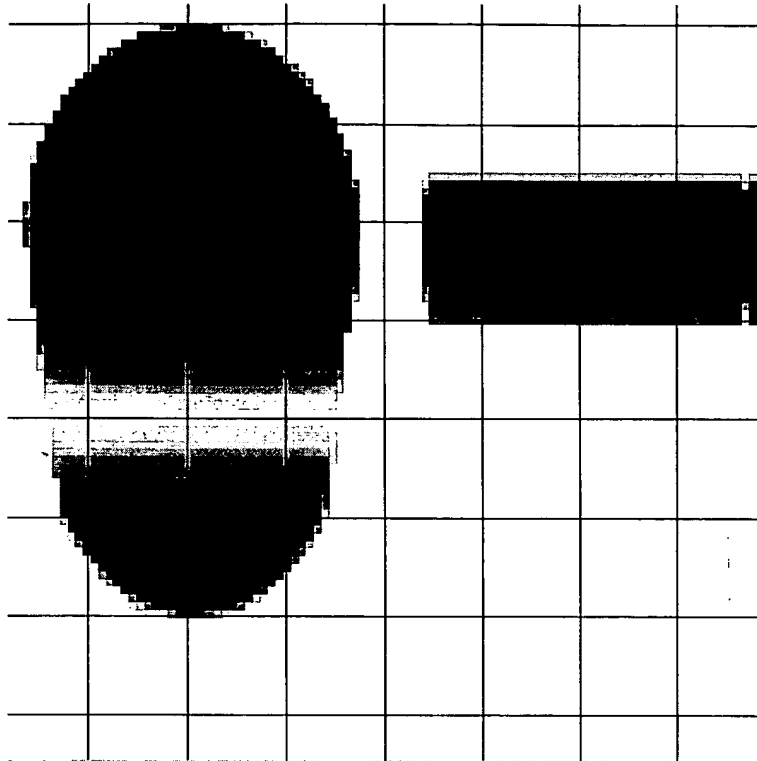


Fig 12B

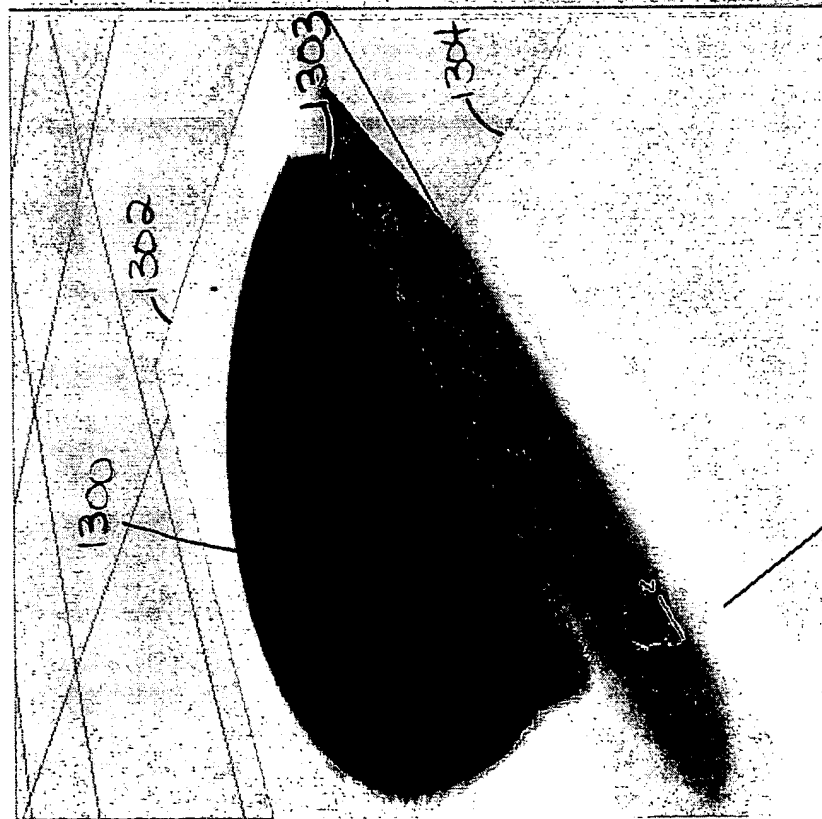


FIG 13A

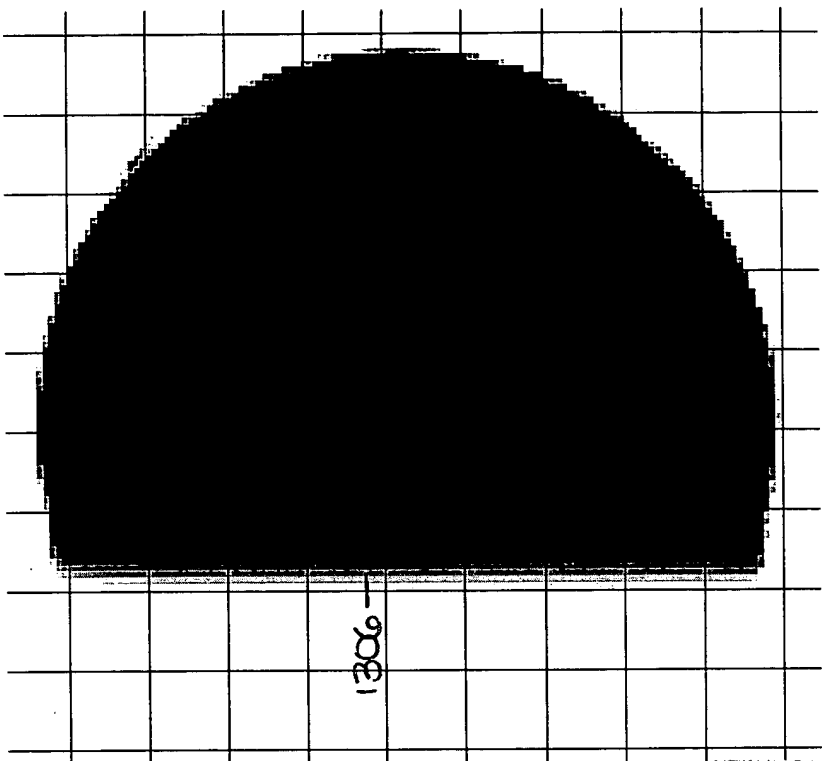


FIG 13B

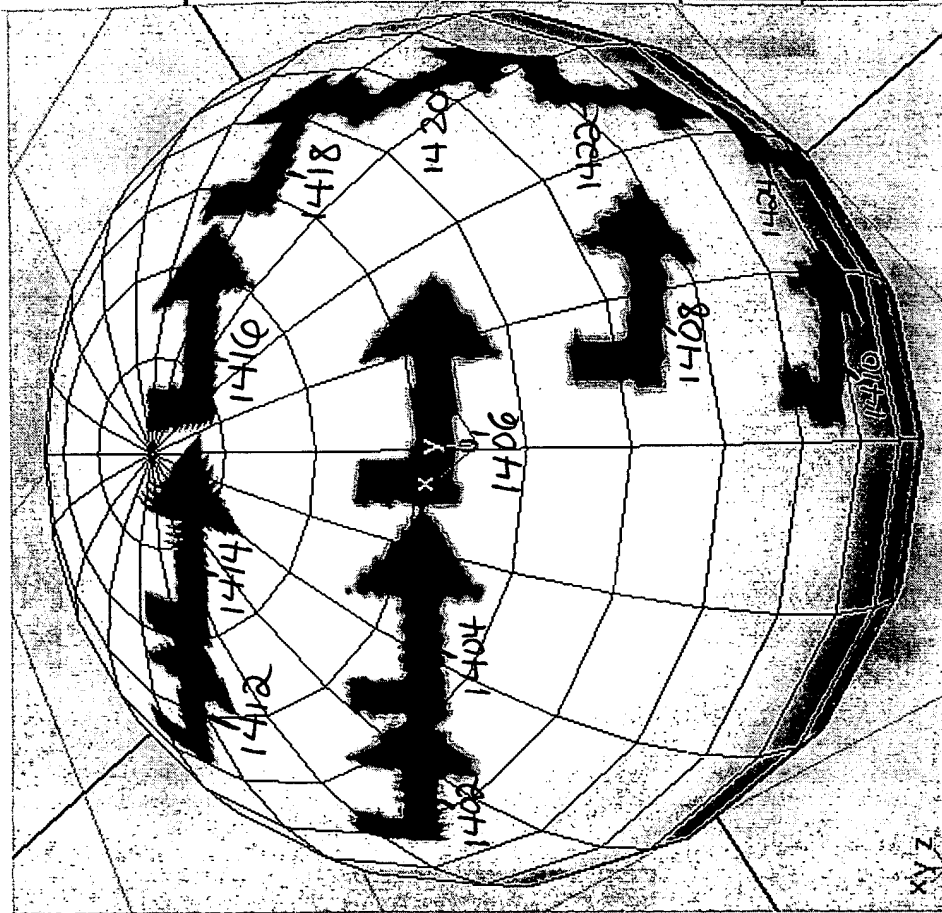


Fig 14A

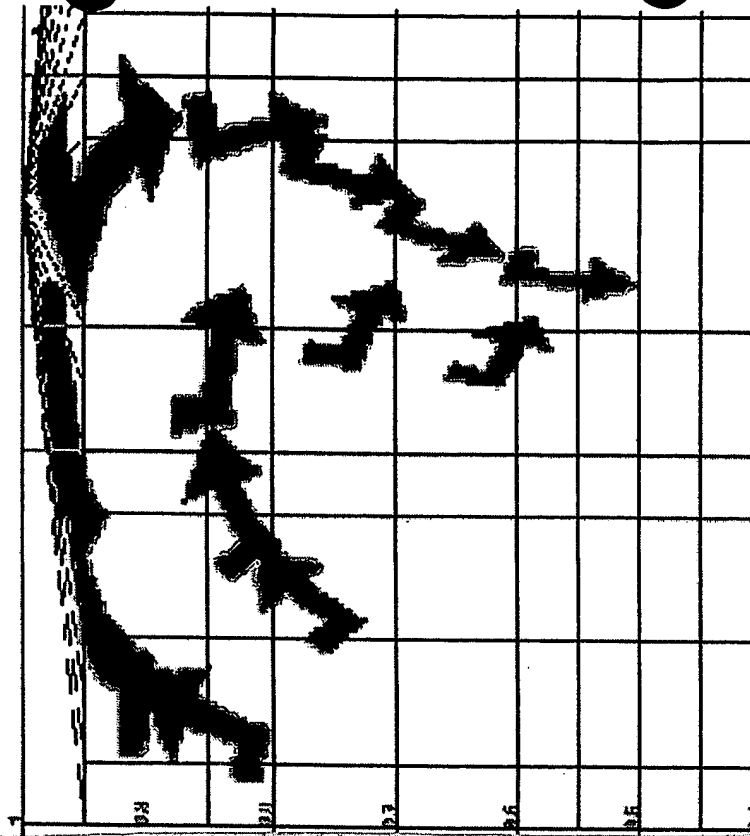


Fig 14B

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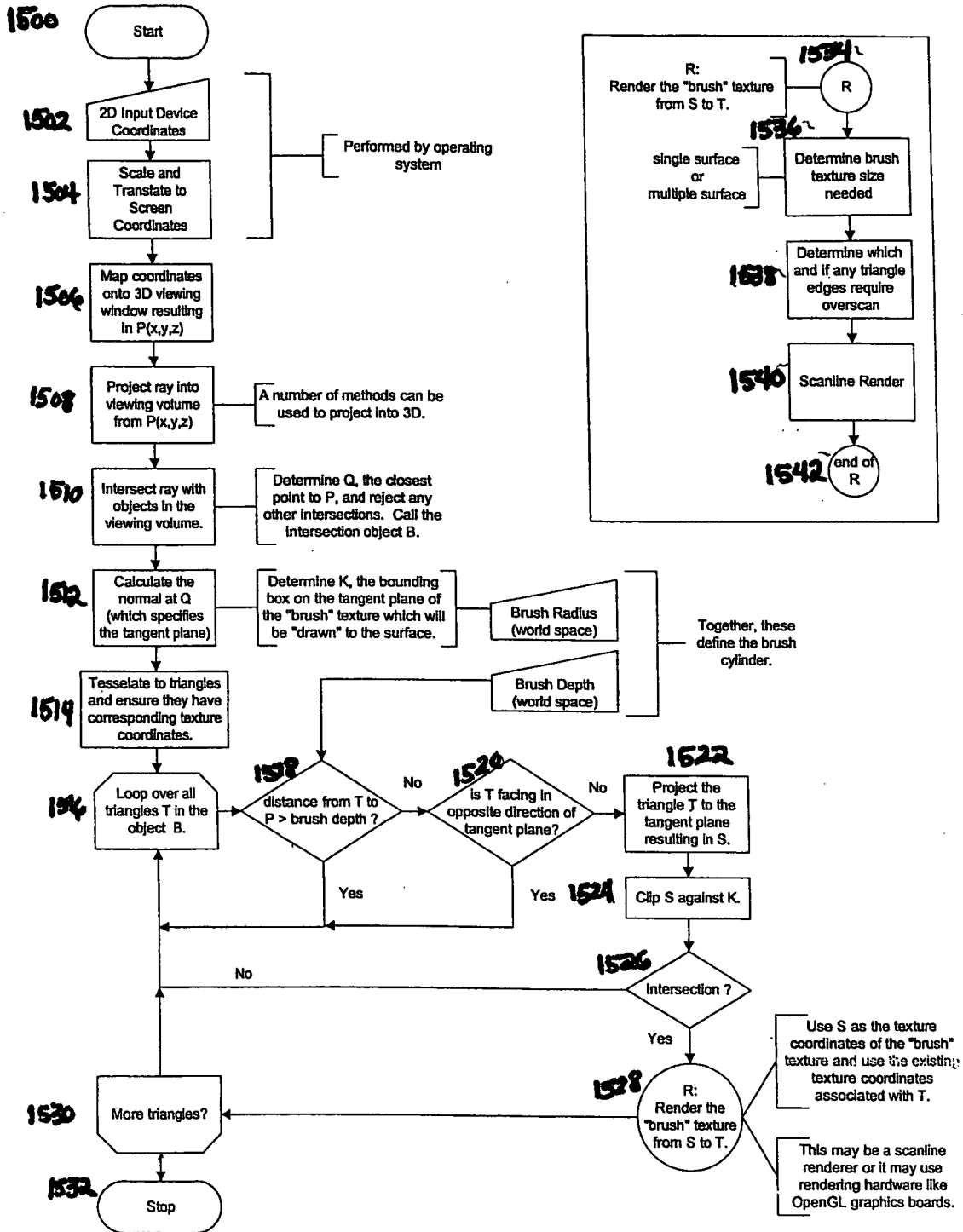


FIG. 15



2025 RELEASE UNDER E.O. 14176

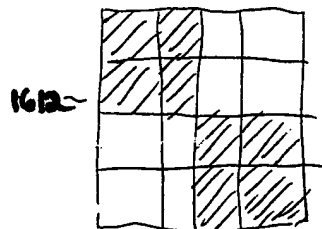
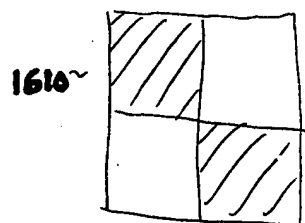
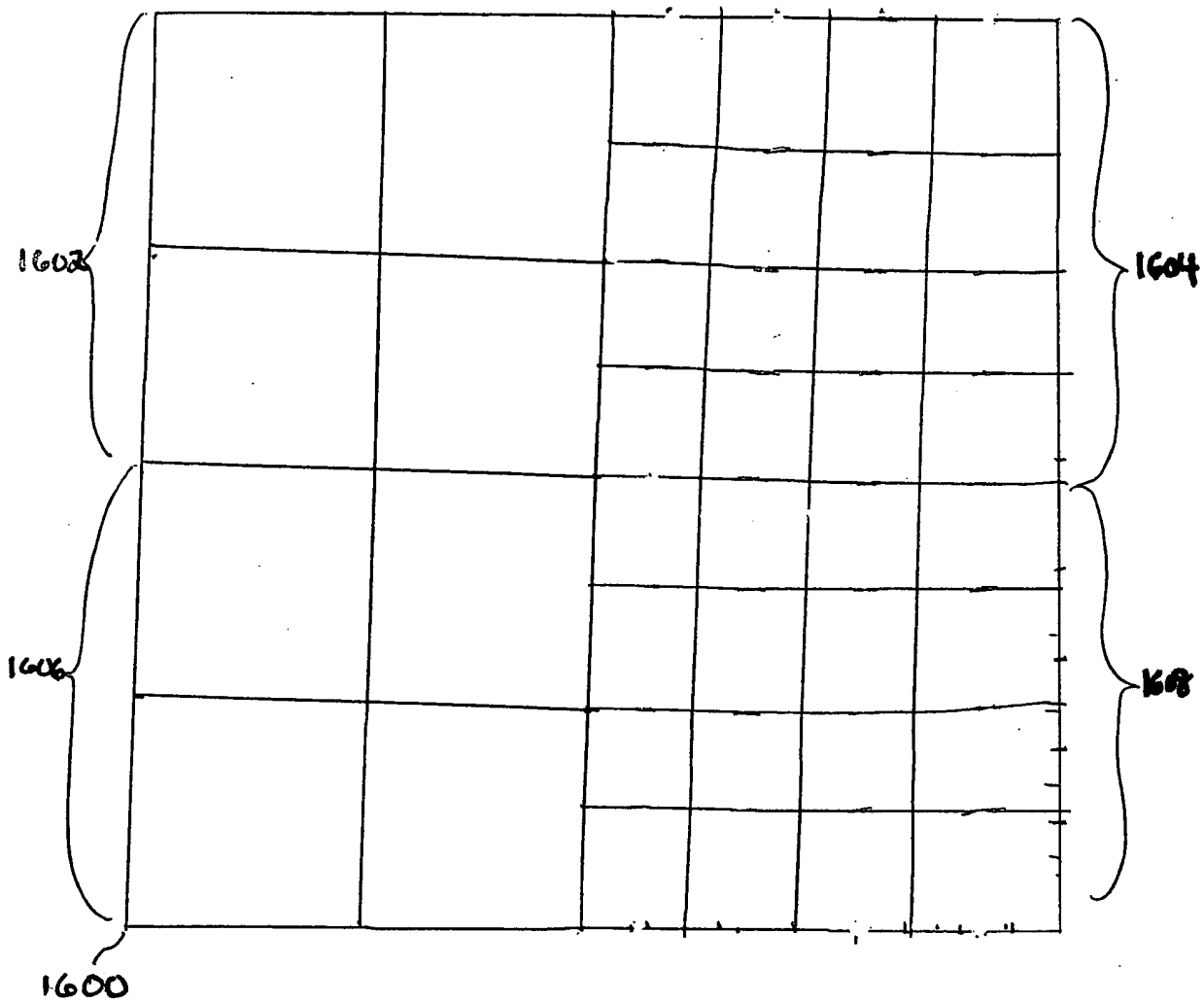


FIG. 16

After standard paint and overscan techniques are used, the image is processed to fill all the remaining background pixels: ⊗.

First step computes the mipmap levels keeping track of background pixels:

- If the 4 pixels at previous level are background pixels, the new one is background too.
- Otherwise, the color is the average of the non background pixels.

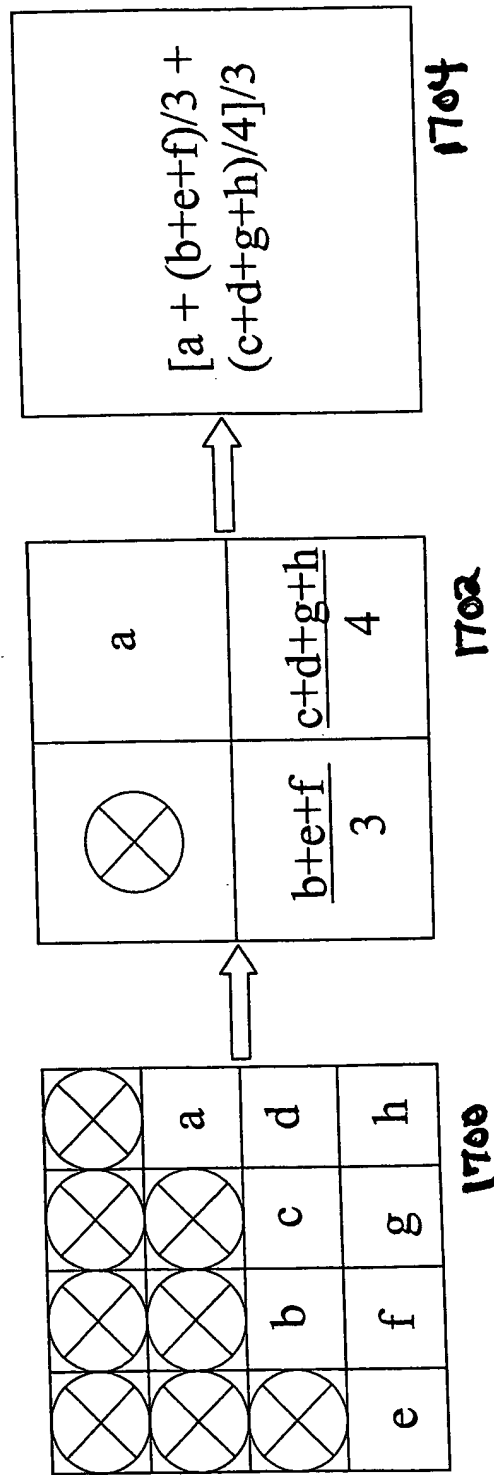


FIG. 17

Second step traverses the mipmap the other way, and assigns the coarser level values to the corresponding background pixels.

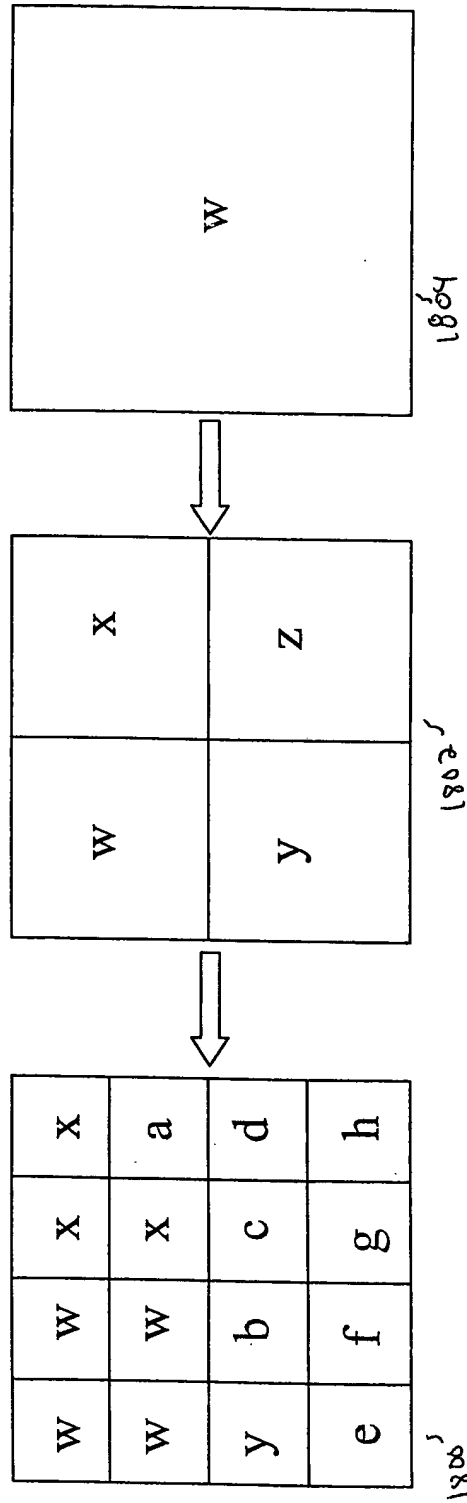


FIG. 18

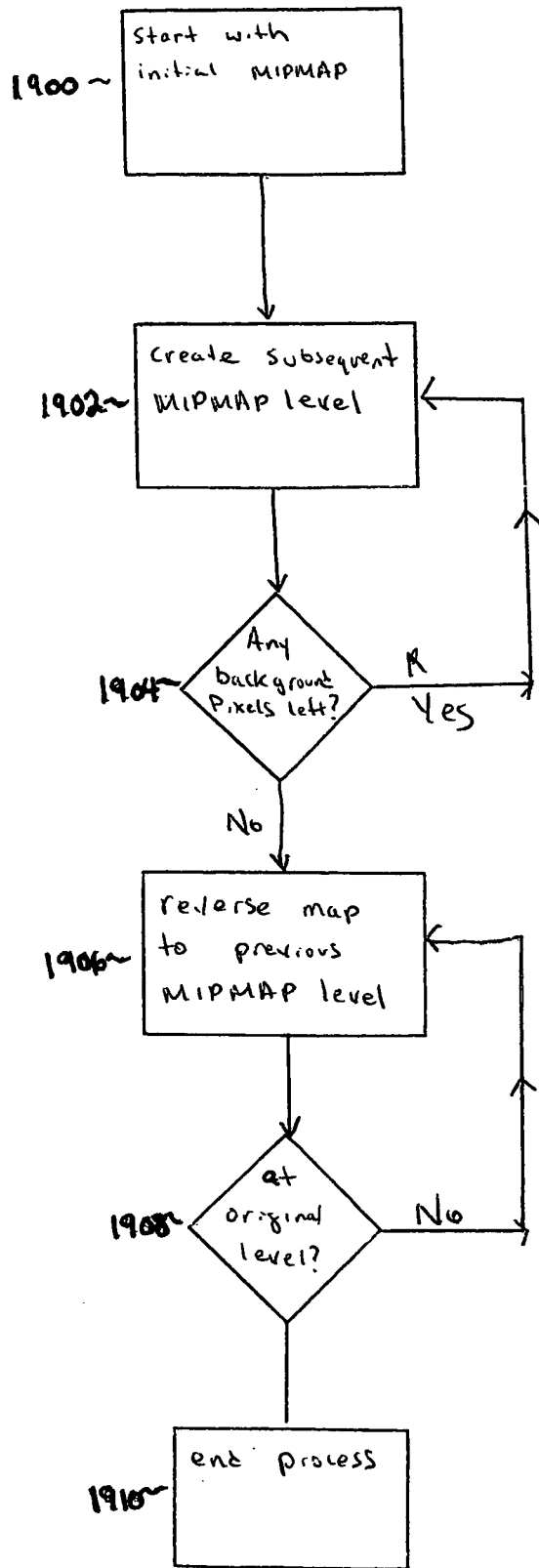


FIG. 19

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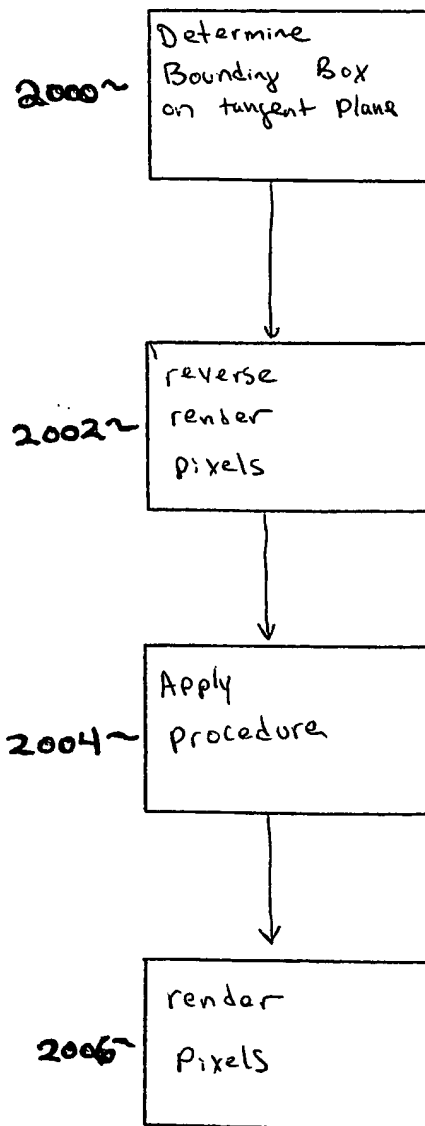


FIG. 20

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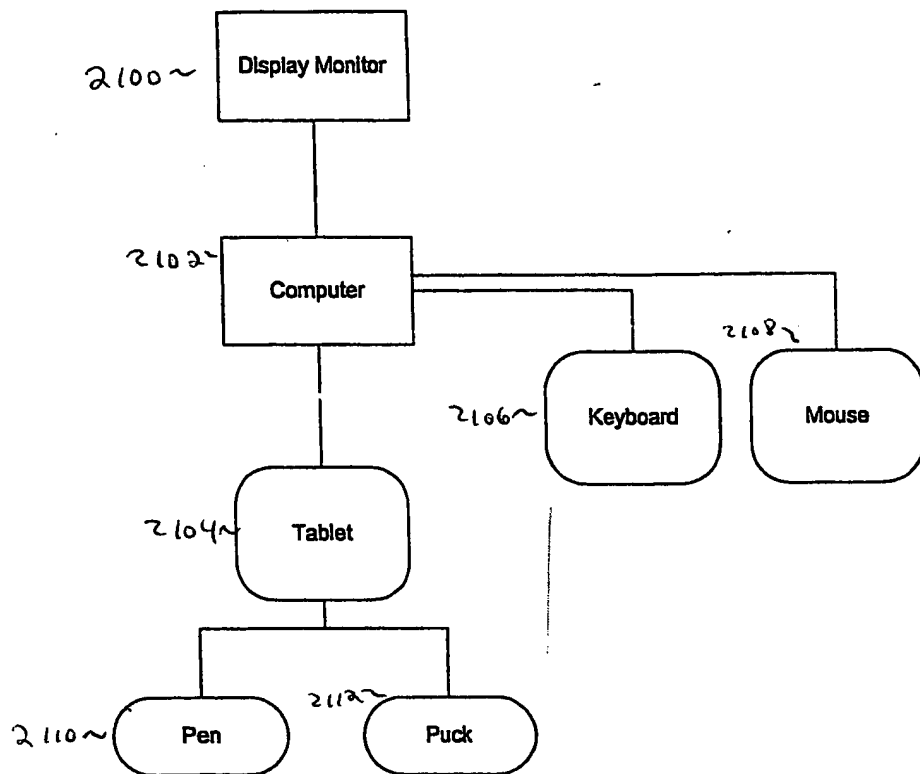


FIG. 21